

**Title:** JP04295072A2: EXTRUDED BUILDING MATERIAL MADE OF LIGHTWEIGHT CEMENT

**Derwent Title:** Lightweight cement prod. for house walls - comprising granular vermiculite powder contg. hydraulic binder and aggregate  
[Derwent Record]

**Country:** JP Japan

**Kind:** A (See also: JP03024236B2)

**Inventor:** KATAHIRA FUJIO;  
MIZUNO JUNICHI;

**Assignee:** SUMITOMO METAL IND LTD  
NICHIIHA KK  
[News, Profiles, Stocks and More about this company](#)

**Published / Filed:** 1992-10-20 / 1991-03-25

**Application Number:** JP1991000060483

**IPC Code:** C04B 38/08; E04F 13/14;

**Priority Number:** 1991-03-25 JP1991000060483


**Abstract:** PURPOSE: To obtain the extruded lightweight cement building material having excellent surface smoothness by incorporating a specific ratio of vermiculite adjusted to a specific grain size distribution as lightweight aggregate into this material.  
CONSTITUTION: The extruded building material made of the lightweight cement is obtd. by adding proper volume of water to a material, which is obtd. by compounding an admixture with ceramic powder consisting of a hydraulic binder and aggregate, then subjecting this mixture to kneading, extrusion molding and curing. The ceramic powder contg. 5 to 30% vermiculite adjusted to the grain size distribution of  $\geq 20$ wt.% of  $\leq 50\mu$  grain size and  $\leq 10\%$  of  $\geq 300\mu$  grain size is used at this time. The surface smoothness of the vermiculite to be used is insufficient in the case of  $\geq 10\%$  of  $300\mu$  grain size. The effect of improving extrudability is low and the surface smoothness is not improved in the case of  $< 20\%$  of  $\leq 50\mu$  grain size. The effect of improving the smoothness is low if the vermiculite is  $\leq 5$  pts.wt. in 100 pts. total ceramic powder. The degradation in the strength arising from the decrease of the sp. gr. and the drastic degradation in freezing hazard resistance important as a building material are resulted if the content thereof exceeds 30 pts.

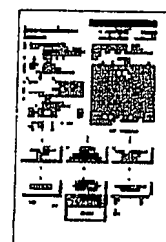
COPYRIGHT: (C)1992,JPO&Japio

**INPADOC Legal Status:** None Get Now: [Family Legal Status Report](#)

**Family:** [Show 2 known family members](#)

**Forward References:** Go to Result Set: Forward references (1)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives



[View Image](#)

1 page

Other Abstract  
Info:

CHEMABS 118(14)130759V CAN118(14)130759V



[Nominate this for the Gallery...](#)

Copyright © 1997-2004  
The Thomson Corporation

[Subscriptions](#) | [Web Seminars](#) | [Privacy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact Us](#) | [Help](#)